



IN THE CLAIMS:

Kindly amend claims 1, 15, and 41 to read as follows:

31 1. (Once amended) A melt-pourable explosive composition comprising:

31 30 weight percent to 70 weight percent of one or more organic binders selected from the group consisting of mononitro aromatics and dinitro aromatics, said one or more organic binders collectively exhibiting a total energy of detonation lower than trinitrotoluene and collectively having a total melting point in a range of 80°C to 115°C;

5 weight percent to 35 weight percent of one or more oxidizers; and
5 weight percent to 35 weight percent of one or more reactive metallic fuels,

wherein said melt-pourable explosive composition becomes pourable and is remelttable into a pourable state at a temperature in a range of 80°C to 115°C.

15. (Once amended) A melt-pourable explosive composition comprising:

32 30 weight percent to 70 weight percent of one or more organic binders selected from the group consisting of mononitro aromatics and dinitro aromatics, said one or more organic binders collectively exhibiting a total energy detonation lower than trinitrotoluene and collectively having a total

melting point in a range of 80°C to 115°C;

5 weight percent to 35 weight percent of one or more inorganic oxidizers; and

5 weight percent to 35 weight percent of one or more reactive metallic fuels,

wherein said melt-pourable explosive composition becomes pourable and is remelttable into a pourable state at a temperature in a range of 80°C to 115°C.

41. (Once amended) A melt-pourable explosive composition comprising:

30 weight percent to 70 weight percent of one or more organic binders selected from the group consisting of mononitro aromatics and dinitro aromatics, said one or more organic binders collectively exhibiting a total energy detonation lower than trinitrotoluene and collectively having a total melting point in a range of 80°C to 115°C;

5 weight percent to 35 weight percent of one or more inorganic oxidizers; and

5 weight percent to 35 weight percent of one or more reactive metallic fuels,

wherein the melt-pourable explosive composition becomes melt-pourable and is remelttable into a pourable state at a temperature in a range

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of 80°C to 115°C, undergoes an onset of thermal decomposition at a temperature that is at least 55.5°C higher than said temperature at which said melt-pourable explosive composition becomes pourable, and exhibits a card gap of less than 105, a dent depth in a range of 0.713 cm to 0.872 cm, and a total energy of detonation of 11.6 kJ/cc to 14.2 kJ/cc.

Kindly add new claims 43-45 as follows:

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43. (New) The melt-pourable explosive composition of claim 1, wherein said one or more oxidizers comprise an inorganic oxidizer present in the composition in a single modal particle size distribution in a range of 5 microns to 50 microns, the inorganic oxidizer constituting from 15 weight percent to 20 weight percent of the composition.

44. (New) The melt-pourable explosive composition of claim 15, wherein said one or more inorganic oxidizers are present in the composition in a single modal particle size distribution in a range of 5 microns to 50 microns, said one or more inorganic oxidizers constituting from 15 weight percent to 20 weight percent of the composition.

45. (New) The melt-pourable explosive composition of claim 41, wherein said oxidizers comprise an inorganic oxidizer present in the composition in a single modal particle size distribution in a range of 5

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microns to 50 microns, the inorganic oxidizer constituting from 15 weight percent to 20 weight percent of the composition.

IN THE CLAIMS:

Kindly amend claims 1, 15, and 41 as follows:

1. (Once amended) A melt-pourable explosive composition comprising:

30 weight percent to 70 weight percent of one or more organic binders selected from the group consisting of mononitro aromatics and dinitro aromatics, said one or more organic binders collectively exhibiting a total energy of detonation lower than trinitrotoluene and collectively having a total melting point in a range of 80°C to 115°C;

5 weight percent to 35 weight percent of one or more oxidizers; and

5 weight percent to 35 weight percent of one or more reactive metallic fuels,

wherein said melt-pourable explosive composition becomes pourable and is remeltable into a pourable state at a temperature in a range of 80°C to 115°C.

15. (Once amended) A melt-pourable explosive composition comprising:

30 weight percent to 70 weight percent of one or more organic binders selected from the group consisting of mononitro aromatics and dinitro aromatics, said one or more organic binders collectively exhibiting a total energy detonation lower than trinitrotoluene and collectively having a total

melting point in a range of 80°C to 115°C;

5 weight percent to 35 weight percent of one or more inorganic oxidizers; and

5 weight percent to 35 weight percent of one or more reactive metallic fuels,

wherein said melt-pourable explosive composition becomes pourable and is remelttable into a pourable state at a temperature in a range of 80°C to 115°C.

41. (Once amended) A melt-pourable explosive composition comprising:

30 weight percent to 70 weight percent of one or more organic binders selected from the group consisting of mononitro aromatics and dinitro aromatics, said one or more organic binders collectively exhibiting a total energy detonation lower than trinitrotoluene and collectively having a total melting point in a range of 80°C to 115°C;

5 weight percent to 35 weight percent of one or more inorganic oxidizers; and

5 weight percent to 35 weight percent of one or more reactive metallic fuels,

[at least one binder, at least one oxidizer, and at least one reactive metallic fuel,] wherein the melt-pourable explosive composition becomes

melt-pourable and is remelttable into a pourable state at a temperature in a range of 80°C to 115°C, undergoes an onset of thermal decomposition at a temperature that is at least 55.5°C higher than said temperature at which said melt-pourable explosive composition becomes pourable, and exhibits a card gap of less than 105, a dent depth in a range of 0.713 cm to 0.872 cm, and a total energy of detonation of 11.6 kJ/cc to 14.2 [kg/cc] kJ/cc.

Kindly add new claims 43-45 as follows:

43. (New) The melt-pourable explosive composition of claim 1, wherein said one or more oxidizers comprise an inorganic oxidizer present in the composition in a single modal particle size distribution in a range of 5 microns to 50 microns, the inorganic oxidizer constituting from 15 weight percent to 20 weight percent of the composition.

44. (New) The melt-pourable explosive composition of claim 15, wherein said one or more inorganic oxidizers are present in the composition in a single modal particle size distribution in a range of 5 microns to 50 microns, said one or more inorganic oxidizers constituting from 15 weight percent to 20 weight percent of the composition.

45. (New) The melt-pourable explosive composition of claim 41, wherein said oxidizers comprise an inorganic oxidizer present in the

composition in a single modal particle size distribution in a range of 5 microns to 50 microns, the inorganic oxidizer constituting from 15 weight percent to 20 weight percent of the composition.